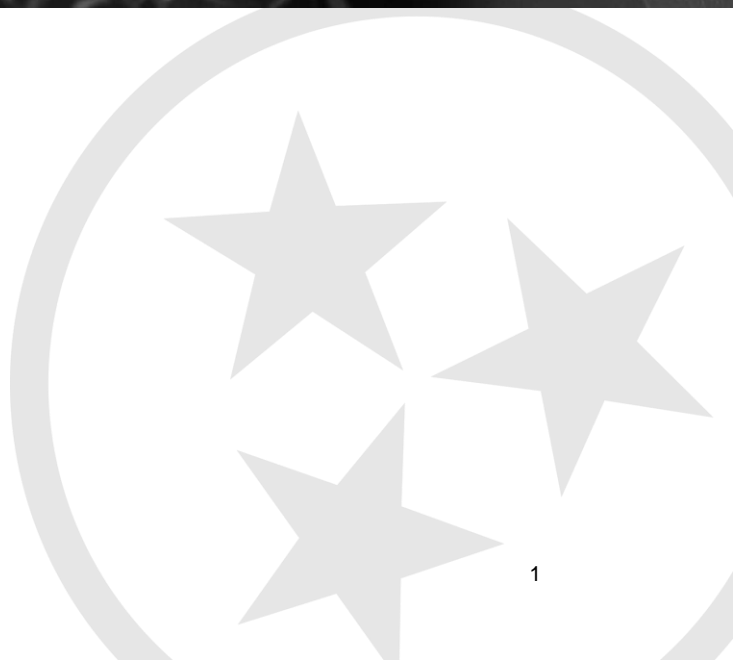




Department of
Education

TCAP- Alternate 2016-17 Assessment Blueprints

Revised January 2017



TCAP Alternative Grades 3-5 Science

Alternative Science Testing Structure

The testing structure for science reflects both the number of operational assessment items and the number of field test assessment items.

	Administration Window*
3-5	Multiple untimed sessions <ul style="list-style-type: none"> 24 multiple choice items (20 operational items and 4 field test Items)

* Teachers may administer the assessment in as many sessions as necessary throughout the entire administration window.

TCAP Grades 3-5 Alternate Science Blueprints 2016-17

The blueprints reflect only operational assessment items.

Grade 3			
Content		# of items	% of test
LS 1: Cells, Flow of Matter & Energy, Heredity		3-5	15-25
0307.3.1	Identify the basic needs of plants and animals.		
0307.4.1	Select an illustration that shows how an organism changes as it develops.		
LS 2: Interdependence, Biodiversity & Change		3-5	15-25
0307.5.1	Investigate an organism's characteristics and evaluate how these features enable it to survive in a particular environment.		
0307.2.1	Distinguish between living and non-living things.		
ES: The Universe, The Earth, The Atmosphere		3-4	15-20
0307.8.1	Choose the correct tool for measuring a particular atmospheric condition.		
0307.8.2	Match major cloud types with specific atmospheric conditions.		
PS 1: Matter and Energy		1-2	5-10
0307.10.1	Use an illustration to identify various sources of heat energy.		
PS 2: Motion, Forces in Nature		6-7	30-35
0307.11.1	Identify how the direction of a moving object is changed by an applied force.		
0307.12.1	Recognize that magnets can move objects without touching them.		
0307.12.2	Identify objects that are attracted to magnets.		

Grade 4		
Content		% of test
LS 1: Cells, Flow of Matter & Energy, Heredity		3-4
0407.1.1	Compare basic structures of plant and animal cells.	
0407.4.1	Draw conclusions about the relationship between reproduction and survival of the species.	
LS 2: Interdependence, Biodiversity & Change		2-4
0407.2.1	Recognize the impact of predation and competition on an ecosystem.	
0307.5.1	Determine how a physical or behavioral adaptation can enhance the chances of survival.	
ES: The Universe, The Earth, The Atmosphere		4-5
0407.7.1	Design a simple model to illustrate how the wind and movement of water alter the earth's surface.	
0407.7.2	Analyze how different earth materials are utilized to solve human problems or improve the quality of life.	
PS 1: Matter and Energy		4-5
0407.10.1	Identify different forms of energy, such as heat, light, and chemical.	
0407.10.2	Determine which surfaces reflect, refract, or absorb light.	
PS 2: Motion, Forces in Nature		4-5
0407.11.2	Identify factors that influence the motion of an object.	
0407.11.3	Determine the relationship between speed and distance traveled over time.	

Grade 5		
Content		% of test
LS 1: Cells, Flow of Matter & Energy, Heredity		3-4
0507.3.1	Identify photosynthesis as the food manufacturing process in plants.	
0507.3.2	Compare how plants and animals obtain energy.	
LS 2: Interdependence, Biodiversity & Change		3-4
0507.2.1	Describe the different types of nutritional relationships that exist among organisms.	
0507.2.3	Use information about the impact of human actions or natural disasters on the environment to support a simple hypothesis, make a prediction, or draw a conclusion.	
ES: The Universe, The Earth, The Atmosphere		4-5
0507.8.1	Describe the effects of the oceans on weather and climate.	
0507.8.2	Explain how mountains affect weather and climate.	
PS 1: Matter and Energy		4-5
0507.9.1	Distinguish between physical and chemical properties.	
0507.9.3	Describe factors that influence the rate at which different types of material freeze, melt, or evaporate.	
PS 2: Motion, Forces in Nature		2-4
0507.12.1	Recognize that the earth attracts objects without touching them.	
0507.12.2	Identify the force that causes an object to fall to the earth.	

TCAP Alternative Grades 6-8 Science

Alternative Science Testing Structure

The testing structure for science reflects both the number of operational assessment items and the number of field test assessment items.

Grade	Administration Window*
6-8	Multiple untimed sessions <ul style="list-style-type: none"> 24 multiple choice items (20 operational items and 4 field test item)

* Teachers may administer the assessment in as many sessions as necessary throughout the entire administration window.

TCAP Grades 3-5 Alternate Science Blueprints 2016-17

The blueprints reflect only operational assessment items.

Grade 6			
Content		# of items	% of test
LS: Interdependence		3-4	15-20
0607.2.2	Interpret how materials and energy are transferred through an ecosystem.		
0607.2.4	Identify the environmental conditions and interdependencies among organisms found in the major biomes.		
ES 1: The Universe		4-7	20-35
0607.6.3	Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.		
0607.6.6	Use a diagram that shows the positions of the earth and sun to explain the four seasons.		
0607.6.7	Explain the difference between a solar and a lunar eclipse.		
ES 2: The Atmosphere		3-4	15-20
0607.8.2	Recognize the connection between the sun's energy and the wind.		
0607.8.4	Interpret meteorological data to make predictions about the weather.		
PS: Energy, Forces in Nature		4-7	20-35
0607.10.2	Interpret the relationship between potential and kinetic energy.		
0607.10.3	Recognize that energy can be transformed from one type to another.		
0607.10.4	Explain the Law of Conservation of Energy using data from a variety of energy transformations.		
6.63	Describe the government of the Roman Republic and its contribution to the development of democratic principles, including the rule of law (a written constitution), separation of powers, checks and balances, representative government, and civic duty.		
6.70	Describe the contribution of Roman civilization to law, literature, poetry, art, architecture, engineering, and technology. Include the significance of Coliseum, Circus Maximus, roads, bridges, arches, arenas, baths, aqueducts, central heating, plumbing, and sanitation.		

Grade 7		
Content		% of test
LS 1: Cells, Flow of Matter & Energy		4-6
0707.1.3	Explain the basic functions of a major organ system.	
0707.1.5	Explain how materials move through simple diffusion.	
0707.3.1	Compare the chemical compounds that make up the reactants and products of photosynthesis and respiration.	
LS 2: Heredity		3-4
0707.4.2	Match flower parts with their reproductive functions.	
0707.4.4	Interpret a Punnett square to predict possible genetic combinations passed from parents to offspring during sexual reproduction.	
ES: The Earth		4-6
0707.7.5	Recognize that lithospheric plates on the scale of continents and oceans continually move at rates of centimeters per year.	
0707.7.6	Interpret meteorological data to make predictions about the weather.	
0707.7.7	Analyze and evaluate the impact of man's use of earth's land, water, and atmospheric resources.	
PS: Motion		4-5
0707.11.3	Apply proper equations to solve basic problems pertaining to distance, time, speed, and velocity.	
0707.11.4	Identify and explain how Newton's laws of motion relate to the movement of objects.	

Grade 8		
Content		% of test
LS: Biodiversity & Change		3-5
0807.5.2	Analyze structural, behavioral, and physiological adaptations to predict which populations are likely to survive in a particular environment.	
0807.5.5	Compare fossils found in sedimentary rock to determine their relative age.	
PS 1: Chemical Reaction		4-6
0807.9.2	Identify the common outcome of all chemical changes.	
0807.9.10	Identify the reactants and products of a chemical reaction.	
0807.9.11	Recognize that in a chemical reaction the mass of the reactants is equal to the mass of the products (Law of Conservation of Mass).	
PS 2: Properties of Matter		3-5
0807.9.1	Recognize that all matter consists of atoms.	
0807.9.6	Compare the particle arrangement and type of particle motion associated with different states of matter.	
PS 3: Forces in Nature		4-6
0807.12.1	Recognize that electricity can be produced using a magnet and wire coil.	
0807.12.2	Describe the basic principles of an electromagnet.	
0807.12.6	Illustrate how gravity controls the motion of objects in the solar system.	

TCAP Alternative End-of-Course Biology

Alternative Science Testing Structure

The testing structure for science reflects both the number of operational assessment items and the number of field test assessment items.

Course	Administration Window*
Biology	Multiple untimed sessions <ul style="list-style-type: none"> 24 multiple choice items (20 operational items and 4 field test items)

* Teachers may administer the assessment in as many sessions as necessary throughout the entire administration window.

TCAP Alternate Biology End-of-Course Blueprint 2016-17

The blueprints reflect only operational assessment items.

Biology		
Content		% of test
Cells		5-7
3210.1.3	Distinguish among proteins, carbohydrates, lipids, and nucleic acids.	
3210.1.5	Identify how enzymes control chemical reactions in the body.	
3210.1.6	Determine the relationship between cell growth and cell reproduction.	
Interdependence		2-3
3210.2.2	Interpret the relationship between environmental factors and fluctuations in population size.	
Flow of Matter and Energy		3-5
3210.3.1	Interpret a diagram that illustrates energy flow in an ecosystem.	
3210.3.3	Compare and contrast photosynthesis and cellular respiration in terms of energy transformation.	
Heredity		2-4
3210.4.4	Determine the probability of a particular trait in an offspring based on the genotype of the parents and the particular mode of inheritance.	
3210.4.5	Apply pedigree data to interpret various modes of genetic inheritance.	
Biodiversity and Change		4-6
3210.5.1	Compare and contrast the structural, functional, and behavioral adaptations of animals or plants found in different environments.	
3210.5.3	Recognize the relationships among environmental change, genetic variation, natural selection, and the emergence of a new species.	

TCAP Alternative Grades 3-5 Social Studies

Alternative Social Studies Testing Structure

The testing structure for social studies reflects both the number of operational assessment items and the number of field test assessment items.

Grade	Administration Window*
3-5	Multiple untimed sessions <ul style="list-style-type: none"> 24 multiple choice items (20 operational items and 4 field test items)

* Teachers may administer the assessment in as many sessions as necessary throughout the entire administration window.

TCAP Grades 3-5 Alternate Social Studies Blueprints 2016-17

The blueprints reflect only operational assessment items.

Grade 3			
Content		# of items	% of test
C1: Geography		4-5	20-25
3.3	Use cardinal directions, map scales, legends, titles, and longitude and latitude to locate major cities and countries in the world.		
3.4	Examine major physical and political features on globes and maps, including mountains, plains, plateaus, mesas, buttes, deserts, deltas, islands, peninsulas, basins, canyons, valleys, bays, streams, gulfs, straits, canals, seas, boundaries, cities, highways, roads, and railroads.		
C2: North and South America		6-8	30-40
3.18	Identify and locate on a map: Canada, Mexico, Central America, and the 50 states of the U.S.		
3.22	Identify major physical features on a map: Rivers—Colorado, Cumberland, Mississippi, Missouri, Ohio, Rio Grande, St. Lawrence, Tennessee; Mountains—Alaska Range, Appalachian, Cascade, Rockies; Bodies of Water—Arctic, Atlantic, Great Lakes, Great Salt Lake, Gulf of Mexico, Hudson Bay, Niagara Falls, Pacific; Deserts—Death Valley, Great Basin; Landforms—Grand Canyon.		
3.26	Describe how goods and services are exchanged on local, regional, and international levels including transportation methods and bartering and monetary exchange.		
3.28	Discuss the structure and purpose of government.		
C3: Europe, Africa, Australia, Asia, and Antarctica		7-9	35-40
3.42	Identify major physical features of the continent: Mountains—Alps, Gibraltar; Bodies of Water—Arctic Ocean, Mediterranean Sea.		
3.44	Interpret a chart, graph, or resource map of major imports and exports.		
3.49	Identify major physical features of the continent: Rivers—Congo, Niger, Nile; Mountains—Kilimanjaro, Mt. Kenya, Atlas Mountains; Deserts—Sahara; Bodies of Water—Indian Ocean, Lake Victoria, Southern Ocean; Landforms—Cape of Good Hope.		
3.52	Interpret a chart, graph, or resource map of major imports and exports.		

Grade 4		
Content		% of test
C1: Americas before Exploration & The Age of Exploration		10-15
4.4	Trace the routes of early explorers and describe the early explorations of the Americas, including: Christopher Columbus, Ferdinand Magellan, Amerigo Vespucci, Robert de La Salle, Hernando de Soto, Henry Hudson, Jacques Cartier.	
C2: Colonization and Independence (1600-1789)		40-50
4.10	Explain the cooperation that existed between the colonists and American Indians during the 1600s and 1700s, including fur trade, military alliances, treaties, and cultural interchanges.	
4.18	Explain various reasons why people came to the colonies, including profit, religious freedom, slavery, and indentured servitude.	
4.20	Explain the impact of individuals who created interest in land west of the Appalachian Mountains, including: long hunters, Daniel Boone- Wilderness Road, Thomas Sharpe Spencer, William Bean, Dr. Thomas Walker.	
4.23	Explain how political, religious, and economic ideas and interests brought about the Revolution, including: resistance to imperial policy (Proclamation of 1763), the Stamp Act, the Townshend Acts, taxes on tea, "taxation without representation," Coercive Acts.	
4.28	Identify the people and events associated with the Declaration of Independence and cite evidence from the Declaration to determine its significance to the development of American Democracy.	
C3: Creating a New Government		0
	N/A	
C4: The New Nation's Westward Expansion and Growth of the Republic (1790-1850)		35-45
4.45	Label and locate the Territory South of the River Ohio (Southwest Territory) on a map, identify its leaders, and explain how it was the first step to statehood, including William Blount, John Sevier, Rocky Mount, and the Treaty of Holston.	
4.47	Detail the events, struggles, success and main people of the exploration of the Louisiana Purchase and map the routes across the continent, including the Corps of Discovery, Lewis and Clark, Sacagawea, Zebulon Pike, and John Frémont.	
4.48	Use concrete words, phrases, and sensory details to convey the experiences of settlers on the overland trails to the West, including location of the routes; purpose of the journeys; the influence of the terrain, rivers, vegetation, and climate.	
4.56	Analyze the impact of the Indian Removal Act on the Cherokee, detail their resistance to being removed, and map the movement west, including: (CGHTN) - Treaty of New Echota; John Ross; Trail of Tears	

Grade 5		
Content		% of test
C 1: Prior to Civil War and The Civil War and Reconstruction (1860-1877)		30-40
5.2	Interpret the sectional difference between the North and the South in economics, transportation, and population.	
5.6	Explain with supporting details why Tennessee was divided on the issue of secession and the events that led it to eventually leave the Union to include: state convention vote of 1861, the Free and Independent State of Scott, Hurst Nation, East Tennessee mostly pro-Union and divided families.	
5.12	Draw on informational text to explain the roles of the military and civil leaders during the Civil War, including: Abraham Lincoln, Jefferson Davis, Ulysses S. Grant, Robert E. Lee, Frederick Douglas, Clara Barton.	
5.15	Explain the contributions of Tennesseans during the war, including: Nathan Bedford Forrest, Sam Watkins, Andrew Johnson, Matthew Fontaine Maury, Sam Davis.	
C2: Industrial America and Westward Expansion		15-20
5.27	Explain the need for the South and Tennessee to move toward industry and mechanization after the Civil War and identify examples of the effort, including Coca Cola bottling in Chattanooga, mining on the Cumberland Plateau, coal and iron processing, the growth of urban areas, and the increase in railroads.	
5.37	Use a graphic organizer to provide information about important business leaders, inventors, and entrepreneurs and the impact they had on American society, including: Thomas Edison, Alexander Graham Bell, Henry Ford, George Eastman, George Washington Carver, Henry Bessemer, Swift and Armour, Cornelius Vanderbilt.	
C3: World War I, the Roaring Twenties, and World War II		20-30
5.46	Evaluate the role of Tennessee as the "Perfect 36" and the work of Anne Dallas Dudley, Harry Burn, and Governor Roberts in the fight for women's suffrage and Josephine Pearson's opposition.	
5.49	Analyze the events that caused the Great Depression and its impact on the nation and Tennessee, including mass unemployment, Hoovervilles, and soup kitchens.	
C4: The Modern United States		15-20
5.64	Refer to details and examples about the significance of Tennessee in popular music, including Sun Studios, Stax Records, Elvis Presley, B.B. King, and Memphis, Tennessee.	
5.65	Analyze the key events and struggles during the Civil Rights Movement, including: Brown v. Board of Education; Non-	

TCAP Alternative Grades 6-8 Social Studies

Alternative Social Studies Testing Structure

The testing structure for social studies reflects both the number of operational assessment items and the number of field test assessment items.

Grade	Administration Window*
6-8	Multiple untimed sessions <ul style="list-style-type: none"> 24 multiple choice items (20 operational items and 4 field test items)

* Teachers may administer the assessment in as many sessions as necessary throughout the entire administration window.

TCAP Grades 6-8 Alternate Social Studies Blueprints 2016-17

The blueprints reflect only operational assessment items.

Grade 6			
Content		# of items	% of test
C1: Human Origins and the Emergence of Civilizations		0	0
	N/A		
C2: Ancient Civilizations: Mesopotamia, Egypt, India, China and Israel		10-11	50-55
6.8	On a historical map, locate and describe the Tigris and Euphrates Rivers, Zagros and Caucasus Mountains, Persian Gulf, Caspian and Black Sea, Dead Sea and Sea of Galilee, and explain why the region is referred to as the Fertile Crescent.		
6.12	Explain the effects of how irrigation, metal-smithing, slavery, the domestication of animals, and inventions such as the wheel, the sail, and the plow on the growth of Mesopotamian civilizations.		
6.13	Analyze the important achievements of Mesopotamian civilization, including its system of writing (and its importance in record keeping and tax collection), literature (Epic of Gilgamesh), monumental architecture (the ziggurat), and art (large relief sculpture, mosaics, and cylinder seals).		
6.19	Summarize important achievements of Egyptian civilization, including: the agricultural and irrigation systems; the invention of a calendar; main features of the monumental architecture and art, such as the Pyramids and Sphinx at Giza; evolution of writing-hieroglyphics; and the invention of papyrus. (CEH)		
6.4	Examine the development of the ancient Israelites, tracing their migrations from Mesopotamia to Canaan, later called Israel, and explain the significant roles of Abraham and Moses in their history. (CHG)		
C3: Ancient Greece to 300 B.C.		3-5	15-25
6.47	Explain how the geographical location of ancient Athens and other city-states contributed to their role in maritime trade, their colonies in the Mediterranean, and the expansion of their cultural influence.		
6.49	Explain how the development of democratic political concepts in ancient Greece lead to the origins of direct democracy and representative democracy, including: the "polis" or city-state, civic participation and voting rights, legislative bodies constitution writing, and rule of law.		
C4: Ancient Rome to C.E. 500		4-5	20-25
6.61	Explain how the geographical location of ancient Rome contributed to the shaping of Roman society and the expansion of its political power in the Mediterranean region and beyond.		

Grade 7		
Content		% of test
C1: Early Modern World Civilizations: Africa, China, Japan, and the Islamic World		30-40
7.13	Analyze the growth of the Ghana, Mali, and Songhai kingdoms, including trading centers such as Timbuktu and Jenne, which would later develop into centers of culture and learning.	
7.16	Analyze the importance of family, labor specialization, and regional commerce in the development of states and cities in West Africa.	
7.22	Summarize the significance of the rapid agricultural, commercial, and technological development during the Song Dynasties.	
7.23	Trace the spread of Chinese technology to other parts of Asia, the Islamic world, and Europe including papermaking, wood-block printing, the compass, and gunpowder.	
C2: The Legacy of the Roman Empire and the Middle Ages in Western Europe to the 1500s		15-25
7.33	Describe the development of feudalism and manorialism, its role in the medieval European economy, and the way in which it was influenced by physical geography (the role of the manor and the growth of towns).	
7.41	Trace the emergence of a modern economy, including the growth of banking, technological and agricultural improvements, commerce, towns, and a merchant class.	
C3: Early Modern Europe: Renaissance and Reformation		15-25
7.45	Summarize the effects and implications of the reopening of the ancient Silk Road between Europe and China, including Marco Polo's travels and the location of his routes.	
7.48	Outline the advances made in literature, the arts, science, mathematics, cartography, engineering, and the understanding of human anatomy and astronomy, including Leonardo da Vinci (Last Supper, Mona Lisa), Michelangelo (the Sistine Chapel, the statue of David), Johann Gutenberg, and William Shakespeare.	
C4: Early Modern Europe: Enlightenment Through the Age of Exploration		15-25
7.71	Identify the European countries responsible for North American exploration and the modern-day countries in which they settled, including France, Spain, England, Portugal, and the Dutch. Summarize the reasons for the success of these countries in colonization or North and South America.).	
7.74	Examine the impact of the exchanges of plants, animals, technology, culture, ideas, and diseases among Europe, Africa, Asia, and the Americas in the 15th and 16th centuries and the major economic and social effects on each continent.	

Grade 8		
Content		% of test
C 1: Colonialism (1600-1750)		10-20
8.3	Explain the founding of the Plymouth Colony, including the Separatists, William Bradford, Mayflower, Mayflower Compact, and Squanto.	
C2: Development of an American Republic (1720-1789)		25-30
8.22	Analyze the social, political and economic causes of the American Revolution and the major battles, leaders and events, including: Mercantilism; Pontiac's Rebellion; The Proclamation of 1763; The Sugar Act, 1764; The Quartering Act, 1765; The Stamp Act, 1765; The Declaratory Act, 1766; The Townshend Act, 1767; The Boston Massacre, 1770; The Boston Tea Party, 1773; The Intolerable Acts, 1774; Patrick Henry; Benjamin Franklin; John Adams; Sam Adams; John Hancock; Thomas Jefferson; Sons of Liberty.	
8.25	Identify and explain the significance of the major battles, leaders, and events of the American Revolution, including: Battles of Lexington and Concord, Capture of Fort Ticonderoga, Battle of Bunker Hill (Breed's Hill), Battle of Trenton and Princeton, Battle of Saratoga, Valley Forge, Battle of King's Mountain, Battle of Yorktown, George Washington, Benedict Arnold, Hessians, Marquis de La Fayette, Friedrich von Steuben, George Rogers Clark, and Francis Marion.	
8.33	Describe the principles embedded in the Constitution, including the purposes of government listed in the Preamble, separation of powers, check and balances, the amendment process, federalism, and recognition of and protections of individual rights in the Bill of Rights.	
C3: The Young Nation to the Divided Nation (1789-1850)		30-40
8.39	Identify the leaders and events and analyze the impact of western expansion to the development of Tennessee statehood, including: William Blount, John Sevier, Rocky Mount, Treaty of Holston, Cumberland Gap, River systems, Natchez Trace, Jackson Purchase.	
8.59	Describe American settlements in Texas after 1821 and the causes for the Texas War of Independence, including the roles of David Crockett and Sam Houston in the war and the legacy of the Alamo.	
8.63	Trace the major figures and events in the discovery of gold in California and its impact on the economy of the United States, including John Sutter, and 49'ers.	
8.66	Analyze the impact of the various leaders of the abolitionist movement, including John Brown and armed resistance; Harriet Tubman and the Underground Railroad; William Lloyd Garrison and The Liberator; Frederick Douglass and the Slave Narratives; and Harriet Beecher Stowe's Uncle Tom's Cabin, Virginia Hill and Free Hill, Tennessee; Francis Wright and Nashoba Commune; and Elihu Embree's The Emancipator.	
C4: The Civil War, Reconstruction, and Westward Expansion (1830-1890)		15-25
8.72	Identify on a map the boundaries constituting the North and the South and delineate and evaluate the geographical differences between the two regions, including the differences between agrarians and industrialists.	
8.76	Describe Abraham Lincoln's presidency and his significant writings and speeches, including his House Divided speech in 1858, Gettysburg Address in 1863, Emancipation Proclamation in 1863 and inaugural addresses in 1861 and 1865.	